



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/937,899A

DATE: 09/03/2004

TIME: 10:33:43

Input Set : A:\111SEQ.txt

Output Set: N:\CRF4\09032004\I937899A.raw

3 <110> APPLICANT: Koulu, Markku  
 4       Karvonen, Matti  
 5       Pesonen, Ullamari  
 6       Uusitupa, Matti  
 8 <120> TITLE OF INVENTION: Diagnosis of a Person's Risk of Developing Alcoholism  
 9       Based on Leucine7 to Proline 7 Polymorphism in the  
 10      Propro-Neuropeptide Y Gene, and methods for the  
 11      prevention and Treatment of Alcoholism.  
 13 <130> FILE REFERENCE: 2630-111  
 15 <140> CURRENT APPLICATION NUMBER: 09/937,899A  
 16 <141> CURRENT FILING DATE: 2001-09-28  
 18 <150> PRIOR APPLICATION NUMBER: PCT/FI00/00260  
 19 <151> PRIOR FILING DATE: 2000-03-29  
 21 <150> PRIOR APPLICATION NUMBER: US 09/291,994  
 22 <151> PRIOR FILING DATE: 1999-04-15  
 24 <160> NUMBER OF SEQ ID NOS: 9  
 26 <170> SOFTWARE: PatentIn Ver. 2.0  
 28 <210> SEQ ID NO: 1  
 29 <211> LENGTH: 325  
 30 <212> TYPE: DNA  
 31 <213> ORGANISM: Homo sapiens  
 33 <400> SEQUENCE: 1  
 34 ccgccttcttc aggcagtgcc tggggcgaaa gggttgggt gtgggtggct ccctaagtgc 60  
 35 acactcgtgc ggctcggtt ccagccccct ccccccggca ctcaggggcg ggaagtggcg 120  
 36 ggtgggagtc acccaagcgt gactgcccga ggccccctct gccgccccga ggaagctcca 180  
 37 taaaagccct gtcgcgaccc gctctctgca ccccatccgc tggctctcac ccctcggaga 240  
 38 cgctcgcccg acagcatagt acttgcgcgcc cagccacgccc cgcgcgcccag ccaccgtgag 300  
 39 tgctacgacc cgtctgtcta ggggt 325  
 47 <210> SEQ ID NO: 2  
 48 <211> LENGTH: 247  
 49 <212> TYPE: DNA  
 50 <213> ORGANISM: Homo sapiens  
 52 <400> SEQUENCE: 2  
 53 cccgtccgtt gagccttctg tgccctgcaga tgcttagtaa caagcgactg gggctgtccg 60  
 54 gactgaccct cgcctgtcc ctgctcggt gctggccgag gcgtaccacct 120  
 55 ccaagccgga caacccgggc gaggacgcac cagcggagga catggccaga tactactcg 180  
 56 cgctcgacca ctacatcaac ctcacatcacca ggcagaggtg ggtgggaccg cgggaccgat 240  
 57 tccggaa 247  
 64 <210> SEQ ID NO: 3  
 65 <211> LENGTH: 142  
 66 <212> TYPE: DNA  
 67 <213> ORGANISM: Homo sapiens  
 69 <400> SEQUENCE: 3



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70 acttgcttta aaagactttt tttttccag atatggaaaa ccatcttagcc cagagacact 60  
 72 gatttcagac ctcttgatga gagaaaggcac agaaaatgtt cccagaactc ggtatgacaa 120  
 74 ggcttgcgtat ggggacattt tt 142  
 77 <210> SEQ ID NO: 4  
 78 <211> LENGTH: 300  
 79 <212> TYPE: DNA  
 80 <213> ORGANISM: Homo sapiens  
 82 <400> SEQUENCE: 4  
 83 ccttacatgc tttgcttctt atgtttaca ggcttgaaga ccctgcaatg tgggtatggg 60  
 85 aaatgagact tgctctctgg cctttccctt ttttcagccc atatttcatac gtgtaaaacg 120  
 87 agaatccacc catcctacca atgcattgcag ccactgtgct gaattctgca atgtttcct 180  
 89 ttgtcatcat tgtatatatg tgtgtttaaa taaagtatca tgcatcataa agtgtatcct 240  
 91 cctcaatgaa aaatcttata caatagttag gattatttc gttttaacttta ttatataacaa 300  
 94 <210> SEQ ID NO: 5  
 95 <211> LENGTH: 551  
 96 <212> TYPE: DNA  
 97 <213> ORGANISM: Homo sapiens  
 99 <220> FEATURE:  
 100 <221> NAME/KEY: CDS  
 101 <222> LOCATION: (87)..(377)  
 103 <220> FEATURE:  
 104 <221> NAME/KEY: sig\_peptide  
 105 <222> LOCATION: (87)..(170)  
 107 <400> SEQUENCE: 5  
 108 acccccattccg ctggctctca cccctcgag acgctcgccc gacagcatag tacttgccgc 60  
 110 ccagccacgc cccgcgcgcca gccacc atg cta ggt aac aag cga ctg ggg ctg 113  
 111 Met Leu Gly Asn Lys Arg Leu Gly Leu  
 112 1 5  
 114 tcc gga ctg acc ctc gcc ctg tcc ctg ctc gtg tgc ctg ggt gcg ctg 161  
 115 Ser Gly Leu Thr Leu Ala Leu Ser Leu Leu Val Cys Leu Gly Ala Leu  
 116 10 15 20 25  
 118 gcc gag gcg tac ccc tcc aag ccg gac aac ccg ggc gag gac gca cca 209  
 119 Ala Glu Ala Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro  
 120 30 35 40  
 122 gcg gag gac atg gcc aga tac tac tcg gcg ctg cga cac tac atc aac 257  
 123 Ala Glu Asp Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn  
 124 45 50 55  
 126 ctc atc acc agg cag aga tat gga aaa cga tcc agc cca gag aca ctg 305  
 127 Leu Ile Thr Arg Gln Arg Tyr Gly Lys Arg Ser Ser Pro Glu Thr Leu  
 128 60 65 70  
 130 att tca gac ctc ttg atg aga gaa agc aca gaa aat gtt ccc aga act 353  
 131 Ile Ser Asp Leu Leu Met Arg Glu Ser Thr Glu Asn Val Pro Arg Thr  
 132 75 80 85  
 134 cgg ctt gaa gac cct gca atg tgg tgatggaaaa tgagacttgc tctctggcct 407  
 135 Arg Leu Glu Asp Pro Ala Met Trp  
 136 90 95  
 138 ttcccttattt tcagccccata ttccatcgat taaaacgaga atccaccat cctaccaatg 467  
 140 catgcagcca ctgtgtgaa ttctgcaatg ttttccttgc tcattatgtt atatatgtt 527  
 142 gtttaataaa agtacatgc attc 551

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**TIME: 10:33:44**

**Input Set : A:\111SEQ.txt**  
**Output Set: N:\CRF4\09032004\I937899A.raw**

```

145 <210> SEQ ID NO: 6
146 <211> LENGTH: 97
147 <212> TYPE: PRT
148 <213> ORGANISM: Homo sapiens
150 <400> SEQUENCE: 6
151 Met Leu Gly Asn Lys Arg Leu Gly Leu Ser Gly Leu Thr Leu Ala Leu
152     1           5           10          15
154 Ser Leu Leu Val Cys Leu Gly Ala Leu Ala Glu Ala Tyr Pro Ser Lys
155     20          25          30
157 Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp Met Ala Arg Tyr
158     35          40          45
160 Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
161     50          55          60
163 Gly Lys Arg Ser Ser Pro Glu Thr Leu Ile Ser Asp Leu Leu Met Arg
164     65          70          75          80
166 Glu Ser Thr Glu Asn Val Pro Arg Thr Arg Leu Glu Asp Pro Ala Met
167     85          90          95
169 Trp
172 <210> SEQ ID NO: 7
173 <211> LENGTH: 12
174 <212> TYPE: RNA
175 <213> ORGANISM: Homo sapiens
177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: (10)
180 <223> OTHER INFORMATION: n is a u in the wildtype and c in the mutant
182 <400> SEQUENCE: 7
W--> 183 acaagcgacn gg          12
186 <210> SEQ ID NO: 8
187 <211> LENGTH: 9
188 <212> TYPE: DNA
189 <213> ORGANISM: Homo sapiens
191 <220> FEATURE:
192 <221> NAME/KEY: misc_feature
193 <222> LOCATION: (5)
194 <223> OTHER INFORMATION: n is a t in the wildtype and c in the mutant
196 <400> SEQUENCE: 8
W--> 197 cgacngggg          9
200 <210> SEQ ID NO: 9
201 <211> LENGTH: 12
202 <212> TYPE: DNA
203 <213> ORGANISM: Homo sapiens
205 <400> SEQUENCE: 9
206 acaagcgacc gg          12

```

RAW SEQUENCE LISTING ERROR SUMMARY                   DATE: 09/03/2004  
PATENT APPLICATION: US/09/937,899A               TIME: 10:33:45

Input Set : A:\111SEQ.txt  
Output Set: N:\CRF4\09032004\I937899A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 10  
Seq#:8; N Pos. 5

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/937,899A

DATE: 09/03/2004

TIME: 10:33:45

Input Set : A:\111SEQ.txt

Output Set: N:\CRF4\09032004\I937899A.raw

L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0

L:197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0